

Title (en)
Clay extruder

Title (de)
Tonstrangpressanlage

Title (fr)
Extrudeuse d'argile

Publication
EP 2103403 A3 20110504 (EN)

Application
EP 09250741 A 20090317

Priority
JP 2008070957 A 20080319

Abstract (en)
[origin: EP2103403A2] The clay extruder includes a drum 2 having a screw 4 having a rotary shaft 6, a spiral rotary blade 5 for feeding the clay under pressure while kneading the clay fed into the screw, a pressure raising portion 10 to feed the clay under pressure while kneading the clay, and a rectifying portion 11 provided on the side of an extrusion port 20 in the drum 2 to rectify the clay into a columnar shape. The rectifying portion 11 has a rectifying rotary blade 7 whose intervals being longer than that of the rotary blade; an angle formed between the face on the side of the extrusion port in a sectional shape of the rectifying rotary blade cut along the central line of the rotary shaft 6 and the central line gradually decreases, as the rectifying rotary blade comes close to the extrusion port.

IPC 8 full level
B28B 3/22 (2006.01); **B01F 7/00** (2006.01); **B29C 48/11** (2019.01); **B29C 48/67** (2019.01)

CPC (source: EP US)
B01F 27/1143 (2022.01 - EP US); **B01F 27/2123** (2022.01 - EP US); **B28B 3/222** (2013.01 - EP US); **B29C 48/022** (2019.01 - EP US); **B29C 48/11** (2019.01 - EP US); **B29C 48/362** (2019.01 - EP US)

Citation (search report)
• [A] US 2004062827 A1 20040401 - YAMAGUCHI SATORU [JP], et al
• [A] FR 1226955 A 19600818

Cited by
CN105397911A; WO2013053958A1; TWI468219B

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2103403 A2 20090923; **EP 2103403 A3 20110504**; **EP 2103403 B1 20130227**; CN 101537657 A 20090923; CN 101537657 B 20121003; JP 2009226594 A 20091008; JP 4951558 B2 20120613; US 2009238911 A1 20090924; US 8070350 B2 20111206

DOCDB simple family (application)
EP 09250741 A 20090317; CN 200910128044 A 20090319; JP 2008070957 A 20080319; US 40463409 A 20090316